






TOXNET: Toxicology & Environmental Information

<http://toxnet.nlm.nih.gov/>



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National Library of Medicine
Specialized Information Services



TOXNET [Tox. & Env. Health](#) [TOXNET](#)

Welcome to TOXNET, a cluster of databases on toxicology, hazardous chemicals, and related areas.

Databases

| | |
|------------------------|--|
| HSDB | |
| IRIS | |
| GENE-TOX | |
| CCRIS | |
| Multi-Databases | |
| TOXLINE | |
| DART/ETIC | |
| TRI | |
| ChemIDplus | |


Search All Databases

Other NLM Resources

[Tox/Env. Health Home Page](#)
[Haz-Map](#)
[Tox Town](#)
[Household Products Database](#)
[ALTBIB](#)
[MEDLINEplus Tox/Env. Health](#)
[MEDLINE/PubMed](#)
[DRLINE](#)
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Support Pages

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**Tox/Env. Health
Information
Home Page**

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NLM Contract No.: N01-LM-1-3515

TOXNET (Toxicology Data Network)

<http://toxnet.nlm.nih.gov/>

- A **FREE** web-based integrated system of toxicology and environmental health databases
- Information on toxicology, environmental health, hazardous chemicals, toxic releases, chemical nomenclature, and specialty areas such as occupational health and consumer products
- Maintained by National Library of Medicine (NLM), Specialized Information Services (SIS)

TOXNET Data Files

Hazardous Substances Data Bank (HSDB)

- From NLM
- Toxicology of potentially hazardous chemicals
- Information on human exposure, industrial hygiene, emergency handling procedures, environmental effects, regulatory requirements, and related areas
- Data from books, government documents, technical reports and selected primary literature. Some data is compiled expressly for HSDB
- Over 4600 chemical records
- Peer reviewed by the Scientific Review Panel

Chemical Carcinogenesis Research Information System (CCRIS) –

- From the National Cancer Institute (NCI)
- Data and information on carcinogenicity, mutagenicity, tumor promotion, and tumor inhibition test results
- Data derived from studies cited in primary journals, current awareness tools, NCI reports, and other special sources
- Over 8000 chemical records
- Reviewed by experts in carcinogenesis and mutagenesis

Genetic Toxicology (GENE-TOX)

- From the U.S. Environmental Protection Agency (EPA)
- Note: GENE-TOX not updated since January 2000
- Mutagenicity test data
- Data Structure – assay type, assay code, results, panel report, reference
- Over 3000 Chemical Records
- Peer reviewed

Integrated Risk Information System (IRIS)

- From the EPA
- Information on EPA carcinogenic and non-carcinogenic health risk assessment and regulatory information
- Over 500 chemical records
- Scientifically reviewed by groups of EPA scientists and represent EPA consensus
- Also contains literature references

Searching TOXNET Data Files


- Each TOXNET Data File may be searched or browsed individually or by using the **Multi-Database** option
- NOTE: **HSDB**, **IRIS**, **CCRIS** and **GENE-TOX** employ very similar search engines. Search techniques for **Multi-Databases** can be used for the individual Data Files


Multi-Databases


- Integrated search of HSDB, IRIS, CCRIS, and/or GENE-TOX

Browsing Multi-Databases

- Browse the Index** allows browsing by terms, CAS number or chemical name
- Browse Results** displays a segment of the index with the best match first and in which data file
- To view the results in each data file, click the number of hits next the data file name

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Multi-Databases
Browse Results

[Tox. & Env. Health](#) [TOXNET](#) [Multi-Databases](#)

☐ All Words ☐ CAS Registry Number ☒ Chemical Name


Check one or more chemical names. Then click on SELECT.

Start of Chemical Name Browse: AMMONIA

| Check to Select | Number of Records | Index Term |
|--------------------------|-------------------|--|
| <input type="checkbox"/> | 3 | AMMONIA [hsdb=1] [ccris=1] [genetox=1] |
| <input type="checkbox"/> | 1 | AMMONIA, ANHYDROUS [hsdb=1] |
| <input type="checkbox"/> | 1 | Ammonia aqueous [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIA GAS [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIA, MONOHYDRATE [hsdb=1] |
| <input type="checkbox"/> | 1 | Ammonia sesquicarbonate [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIA SOLUTION [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIAC (FRENCH) [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIACA (ITALIAN) [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIAK (GERMAN) [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIATED MERCURIC CHLORIDE [hsdb=1] |
| <input type="checkbox"/> | 1 | AMMONIATED MERCURY [hsdb=1] |


Searching Multi-Databases

- Search by chemical names, other terms (including multiple terms), and numbers (including CAS numbers)
- Select databases to search by checking or unchecking the box(es)



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SIS 

Multi-Databases [Tox. & Env. Health](#) [TOXNET](#) [Multi-Databases](#)

Databases

| | |
|---|-------------------|
| HSDB | i |
| IRIS | i |
| GENE-TOX | i |
| CCRIS | i |
| Search HSDB, IRIS CCRIS & GENE-TOX | i |
| TOXLINE | i |
| DART/ETIC | i |
| TRI | i |
| ChemIDplus | i |
| TOXNET Home | |

Search Multiple Databases

For chemicals, add synonyms
and CAS numbers to search:
☒ Yes ☐ No

Search in:

| | |
|---|--|
| <input checked="" type="checkbox"/> HSDB | <input checked="" type="checkbox"/> IRIS |
| <input checked="" type="checkbox"/> CCRIS | <input checked="" type="checkbox"/> GENE-TOX |

Other NLM Resources

[Tox/Env. Health Home Page](#)
[Haz-Map](#)
[Tox Town](#)
[Household Products Database](#)
[ALTBIB](#)
[MEDLINEplus Tox/Env. Health](#)
[MEDLINE/PubMed](#)
[DIRLINE](#)
[NLM Gateway](#)

Support Pages

[Help](#)

- Search results display a summary of the number of records retrieved in each database
- Results display best matches first
- **Saved Checked Items** option allows you to display selected records only
 - Check box next to record number(s)
 - Click **Saved Checked Items**
 - Click **Display Saved Items** to view only the selected records
- **Sort** allows selected records to be resorted in ascending or descending order.
TIP: This is best used with **Saved Checked Items**
- **Details** displays the search strategy
- **History** displays your recent searches
- **Download** allows some or all of the records retrieved to be downloaded in brief or full format. TIP: This is best used with **Saved Checked Items**
- **Modify Search** and **Basic Search** returns you to the Basic Search screen
- **Browse Index** opens the Browse the Index search screen

Save
Checked Items

2 items saved.

Display
Saved Items

Sort

Details

History

Download


Modify Search

Basic Search

Browse Index



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Multi-Databases Search Results


[Tox. & Env. Health](#)
[TOXNET](#)
[Multi-Databases](#)

For chemicals, add synonyms and CAS numbers to search: ☒ Yes ☐ No

[HSDB: 882](#)
[IRIS: 3](#)
[CCRIS: 1](#)
[GENETOX: 1](#)

Click on the database name to repeat the search in that database

Items 1 through 20 of 887

Page 1 of 45. to page 

Substance Names are sorted in relevancy ranked order.

| Select Record | Database | Substance Name |
|---|----------|--------------------------------------|
| The following 4 records are the primary records for the chemicals. All of the query terms were found. | | |
| 1 <input type="checkbox"/> | CCRIS | AMMONIA 7664-41-7 |
| 2 <input type="checkbox"/> | HSDB | AMMONIA 7664-41-7 |
| 3 <input type="checkbox"/> | GENETOX | AMMONIA 7664-41-7 |
| 4 <input type="checkbox"/> | IRIS | Ammonia 7664-41-7 |

Full Record Display

- The Full Record Display for each database has similar navigation buttons on the top of the screen
- **Next Item** and **Previous Item** allows moving from record to record
- **Search Results** returns to the Brief format results
- **Other Files** allows the search to be conducted in other TOXNET files

HSDB

Next Item

Search Results

Basic Search

Details

Other Files

Modify Search

Previous Item

Download

Browse Index

Help

TOXNET Home

Item 2 of 889

Contents

Contract all categories

Expand all categories

Select

Clear

☐ FULL RECORD

☐ Human Health Effects

☐ Emergency Medical Treatment

☐ Animal Toxicity Studies

☐ Metabolism/Pharmacokinetics

☐ Pharmacology

☐ Environmental Fate & Exposure

☐ Environmental Standards & Regulations

☐ Chemical/Physical Properties

☐ Chemical Safety & Handling

☐ Occupational Exposure Standards

☐ Manufacturing/Use Information

☐ Laboratory Methods

☐ Special References

☐ Synonyms and Identifiers

☐ Administrative Information

AMMONIA

CASRN: 7664-41-7

For other data, click on the Table of Contents

Human Health Effects:

Human Toxicity Excerpts:

SYMPTOMATOLOGY (AMMONIA GAS & WATER ONLY): 1. Vapors cause irritation of eyes & resp tract. High concn cause conjunctivitis, laryngitis, & pulmonary edema or pneumonitis. Sensation of suffocation ... induced by spasm of glottis or by laryngeal edema. 2. Contact with skin can cause burns & vesication. If squirted into eyes ... rise in intraocular pressure may mimic narrow-angle glaucoma. Corneal edema & semidilated fixed pupils ... /are/ typical. 4. If systemic absorption becomes extensive, coma may arise ... preceded by ... hypertonus & convulsions.
[Gosselin, R.E., R.P. Smith, H.C. Hodge. Clinical Toxicology of Commercial Products. 5th ed. Baltimore: Williams and Wilkins, 1984.,p. III-22]**PEER REVIEWED**

AMMONIA HAS A GREATER TENDENCY THAN OTHER ALKALIES TO PENETRATE & DAMAGE THE IRIS, & TO CAUSE CATARACT /IN SEVERE BURNS/ IRITIS MAY BE ACCOMPANIED BY HYPOPYON OR HEMORRHAGES ... EXTENSIVE LOSS OF PIGMENT & SEVERE GLAUCOMA.
[Grant, W.M. Toxicology of the Eye. 3rd ed. Springfield, IL: Charles C. Thomas Publisher, 1986. 87] **PEER REVIEWED**

/WORKER/ COMPLAINED OF CHRONIC COUGH & INCR DYSPNEA ON EFFORT. BILATERAL INFILTRATES ... SEEN ON CHEST X-RAY, & LUNG FUNCTION INDICES REFLECTED ... VENTILATORY & DIFFUSION ABNORMALITIES. AFTER THREE YR AWAY FROM AMMONIA EXPOSURE ... WORKER HAD PERSISTENT EVIDENCE OF PULMONARY DAMAGE.
[Hamilton, A., and H. L. Hardy. Industrial Toxicology. 3rd ed. Acton, Mass.: Publishing Sciences Group, Inc., 1974. 208]**PEER REVIEWED**

- Each database has the **Table of Contents** in the left frame and the full record in the right frame
- The search term(s) is highlighted in red in the full record
- The **Table of Contents** includes quick links to the specific record fields and categories

- NOTE: Individual database search screens allow term(s) to be searched only in these fields or categories

The screenshot shows the SIS Chemical Carcinogenesis Research Information System interface. At the top, there is a header with 'About • Contact • Search' and the SIS and NLM logos. Below the header, the main title 'Chemical Carcinogenesis Research Information System' is displayed. To the right of the title are links for 'Tox. & Env. Health', 'TOXNET', 'IRIS', and 'Limits'. The interface is divided into two main sections: 'Databases' and 'Search IRIS'.

Databases

| | |
|------------------------------------|-------------------|
| HSDB | i |
| Integrated Risk Information System | i |
| GENE-TOX | i |
| CCRIS | i |
| Multi-Databases | i |
| TOXLINE | i |
| DART/ETIC | i |
| TRI | i |
| ChemIDplus | i |
| TOXNET Home | |

Other NLM Resources

[Tox/Env. Health Home Page](#)
[Haz-Map](#)
[Tox Town](#)
[Unsubstituted Products Database](#)

Search IRIS

Search [] [Search] [Clear]

Add chemical synonyms and CAS numbers to search:
☒ Yes ☐ No

Search: ☐ exact words ☒ singular & plural forms ☐ word variants
 Search records with: ☐ the phrase ☒ all words ☐ any words

Search in fields:
 (If no box is checked, all fields will be searched.)

☐ Substance Identification
☐ I. Chronic Health Hazard Assessment for Noncarcinogenic Effects
☐ II. Carcinogenicity Assessment for Lifetime Exposure

Contract all categories
 Expand all categories

[Search] [Browse the Index]

- Boolean searching using AND, OR, and NOT is available
- Truncation using the asterisk (*) is allowed at the end of a word and will search any number of characters
- Phrase searching by quotation marks is allowed

Practice Exercise

1. Can the ingestion of hydroquinone be fatal?
2. What is sodium benzoate used for?

TOXNET Literature Files

TOXLINE (TOXicology Literature onLINE)

- From NLM
- Bibliographic information on pharmacological, biochemical, physiological, environmental, and toxicological effects of chemicals/other agents on living systems
- Coverage 1953 to present (and some earlier)
- Over 3 million citations
- 2 components: TOXLINE core and TOXLINE Special
 - TOXLINE Core searchable via PubMed (toxicology subset)
 - Standard toxicology journals
 - TOXLINE Special searchable via TOXNET
 - Special journals, technical reports, research projects, and archival collections

Developmental and Reproductive Toxicology/Environmental Teratology Information Center (DART/ETIC)

- Managed by NLM and funded by the EPA, the National Institute of Environmental Health Sciences (NIEHS), the National Center for Toxicological Research (NCTR) of the Food and Drug Administration (FDA), and NLM
- Bibliographic information on teratology and other aspects of developmental and reproductive toxicology
- Coverage 1953 to present
- Over 100,000 citations
- 2 components – DART Core and DART Special
 - DART Core searchable via TOXNET
 - links to PubMed citations
 - DART Special searchable via TOXNET
 - non-PubMed citations including meeting abstracts, technical reports, and non-MEDLINE journals

Searching TOXNET Literature Files

- Searching options include the **Basic Search**, **Browse the Index** and **Limits Search**
- NOTE: **TOXLINE** and **DART** employ very similar search engines. All search techniques for **TOXLINE** can be used for **DART**

Browsing TOXLINE

- **Browse the Index** allows browsing by terms, MeSH headings or Keywords, Authors or CAS number

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SIS **NLM**

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Toxicology Bibliographic Information

[Tox. & Env. Health](#) [TOXNET](#) [TOXLINE](#) [Browse](#)

Databases

| | |
|--------------------------------------|-------------------|
| HSDB | i |
| IRIS | i |
| GENE-TOX | i |
| CCRIS | i |
| Multi-Databases | i |
| Toxicology Bibliographic Info | i |
| DART/ETIC | i |
| TRI | i |
| ChemIDplus | i |
| TOXNET Home | |

Browse TOXLINE

Browse index in TOXLINE Special:

☒ All Words

☐ MeSH Headings/Keywords

☐ Authors

☐ CAS Registry Number

Other NLM Resources

[Tox/Env. Health Home Page](#)

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[Sample Record](#)

- **Browse Results** displays a segment of the index with the best match first
- To view the term(s), check the corresponding **Check to Select** box and click the **Select** button
- The **Up** and **Down** buttons allow you to view more of the Index

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TOXLINE Browse Results

[Tox. & Env. Health](#) [TOXNET](#) [TOXLINE](#)

☐ All Words ☒ MeSH Headings/Keywords ☐ Authors ☐ CAS Registry Number

Check one or more keywords. Then click on SELECT.

Start of MeSH Heading/Keyword Browse: *Gene therapy*

| Check to Select | Number of Records | Index Term |
|--------------------------|-------------------|-----------------------------|
| <input type="checkbox"/> | 731 | Gene therapy |
| <input type="checkbox"/> | 1 | gene therapy compounding |
| <input type="checkbox"/> | 7 | Gene Therapy/**METHODS |
| <input type="checkbox"/> | 1 | Gene Therapy/METHODS |
| <input type="checkbox"/> | 1 | Gene transfection |
| <input type="checkbox"/> | 29 | Gene transfer |
| <input type="checkbox"/> | 1 | Gene Transfer Techniques |
| <input type="checkbox"/> | 1 | gene variant identification |
| <input type="checkbox"/> | 1 | gene variants |
| <input type="checkbox"/> | 1 | gene vectors |
| <input type="checkbox"/> | 2 | Genechip |
| <input type="checkbox"/> | 13 | general |
| <input type="checkbox"/> | 2 | General Accounting Office |

Searching TOXLINE

- Search by chemical names, other terms (including multiple terms), and numbers (including CAS numbers)
- Click on the **Limits** button to limit your search. Type of **Limits** include
 - Title or Author fields
 - Searching exact words or variants
 - Maximum number of results retrieved
 - Year of publication
 - Search by languages
 - TOXLINE components

**Toxicology
Bibliographic Information**

[Tox. & Env. Health](#) [TOXNET](#) [TOXLINE](#) [Limits](#)

Databases

| | |
|--|-------------------|
| HSDB | i |
| IRIS | i |
| GENE-TOX | i |
| CCRIS | i |
| Multi-Databases | i |
| Toxicology Bibliographic Info | i |
| DART/ETIC | i |
| TRI | i |
| ChemIDplus | i |
| TOXNET Home | |

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Search TOXLINE

Add chemical synonyms and CAS numbers to search:
☒ Yes ☐ No

Search in:
☐ TOXLINE Special
☐ TOXLINE Core on PubMed
☒ Both **New Default**

Search fields:
☒ All fields
☐ Titles
☐ Authors (e.g., Smith H)

Search: ☐ exact words ☒ singular & plural forms ☐ word variants
Search records with: ☐ the phrase ☒ all words ☐ any words

Maximum records returned
Year of Publication:
 through
Only search documents added in the last months.

TOXLINE Components

All
ANEUPL
BIOSIS
CIS
CRISP
DART

Language

All
English
Afrikaans
Arabic
Armenian
Azerbaijani

To select more than one component, click while holding the CTRL (PC) or CMD (Mac) key.

- By default, results retrieve TOXLINE Core in PubMed and TOXLINE Special in TOXNET. You may limit your search to retrieve from either component

Save
Checked Items

Sort

Details

History

Download

Modify Search

Basic Search

Browse Index

Help

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TOXLINE Special
Search Results

gene therapy viral vectors

For chemicals, add synonyms and CAS numbers

Items 1 through 20 of 97

References are sorted in [relevancy rank](#)
Click on [Sort](#) to change the order of the results

| Select Record | Reference |
|----------------------------|--|
| 1 <input type="checkbox"/> | Gene therapy scientific conference Goldspiel BR ASHP Annual Meeting; VO |
| 2 <input type="checkbox"/> | GENE THERAPY FOR PROSTATE CANCER CARDUCCI MA Crisp Data Base National Institute of Health |
| 3 <input type="checkbox"/> | GENE THERAPY FOR PROSTATE CANCER CARDUCCI MA Crisp Data Base National Institute of Health |
| 4 <input type="checkbox"/> | GENE THERAPY FOR PROSTATE CANCER CARDUCCI MA Crisp Data Base National Institute of Health |
| 5 <input type="checkbox"/> | GENE THERAPY FOR PROSTATE CANCER CARDUCCI MA Crisp Data Base National Institute of Health |
| 6 <input type="checkbox"/> | RETROVIRAL VECTOR ENCAPSULATION MORRIS J Crisp Data Base National Institute of Health |
| 7 <input type="checkbox"/> | Human gene therapy: scientific and ethical issues Jolly DJ |

Entrez-PubMed - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Search&db=PubMed&term=gene%20therapy%20viral%20vectors%20AND%20TOXNET>

Google Search Web Search Site Search Froogle PageRank SnagIt

NCBI

Entrez PubMed Nucleotide Protein Genome Structure PMC Journals Books

Search PubMed for gene therapy viral vectors AND Tox[sb] Go Clear

Limits Preview/Index History Clipboard Details

Display Summary Show: 20 Sort Send to Text

Items 1-20 of 508 Page 1 of 26 Next

1: [El-Aneed A.](#) Related Articles, Links

An overview of current delivery systems in cancer gene therapy.
J Control Release. 2004 Jan 8;94(1):1-14.
PMID: 14684267 [PubMed - in process]

2: [Tenenbaum L, Lehtonen E, Monahan PE.](#) Related Articles, Links

Evaluation of risks related to the use of adeno-associated virus-based vectors.
Curr Gene Ther. 2003 Dec;3(6):545-65.
PMID: 14683451 [PubMed - in process]

3: [Chuah MK, Cullen D, VandenDriessche T.](#) Related Articles, Links

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Full Record Display in TOXLINE Special

- Full records include the citation plus abstract
- Search term(s) are highlighted in red
- **Related Records** searches for results similar to the selected record

Related
Records

Search Results

Download

Basic Search

Browse Index

Modify Search

Details

History

Help

TOXNET Home

Gene therapy and pharmacy practice. Part 1

Authors:

[Manuel SM](#)

Author Address: Univ. of Kentucky Coll. of Pharm., Lexington, KY, USA

Source: Am. Pharm.; VOL NS34 ISS Nov 1994, P14-15, (REF)

Abstract:

IPA COPYRIGHT: ASHP The concept of **gene therapy**, the various delivery modes being developed, and their potential impact on pharmacy practice are discussed, including **viral vectors**, adenovirus **vectors**, and other **viral vectors**.

Keywords:

Gene therapy
[research](#)
[development](#)
[Drug administration](#)
[development](#)
[Pharmacy](#)
[practice](#)
[impact](#)

Language: English

International Standard Serial Number: 0160-3450

Coden:

AMPHD

Entry Month: December, 1995

Classification Code: 1911

Year of Publication: 1994

Secondary Source ID: IPA/95/1087276

Practice Exercise

1. Has imipramine in the treatment of enuresis ever been found to be poisonous?
2. What is the effect of ciguatera poisoning on a fetus?

TOXNET Specialty File

Toxics Release Inventory (TRI)

- From the EPA
- Annual estimated releases of toxic chemicals to the environment
- Coverage 1995 to 2001
- Over 480,000 records
- **Basic Search** screen allows limit by years, facility name and location
- **Browse the Index** option is also available

Toxics Release Inventory

[Tox. & Env. Health](#) [TOXNET](#) [TRI](#)

Databases

HSDB

IRIS

GENE-TOX

CCRIS

Multi-Databases

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DART/ETIC

Toxics Release Inventory

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TOXNET Home

Search TRI

Chemical Name or CAS Registry Number

Search

Clear

Add synonyms and CAS numbers to search:
☒ Yes ☐ No

TRI Files:
☒ 2001 ☐ 2000 ☐ 1999 ☐ 1998
☐ 1997 ☐ 1996 ☐ 1995

Facility Names
(Separate multiple entries with commas)

Facility Location
(Separate multiple entries for state, city/state, or zip with commas. For example: NJ, DE, or Trenton NJ, Houston TX, or 21113, 21224.)

☐ State ☒ City/State
☐ County/State ☐ Zip

Greater Than **for**

Search

Browse the Index

Other NLM Resources


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- Results display in brief format with the facilities and chemical list



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SIS



TRI2001 Search Results

► Tox. & Env. Health ► TOXNET ► TRI2001

[Calculate Release!](#)
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[Browse Index](#)
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Please click on **Modify Search** button to modify TRI search strategy.

Items **1** through **12** of **12**
*Facility/Substance Names are **unsorted**.*

| Select Record | Facility/Substance Name |
|----------------------------|--|
| 1 <input type="checkbox"/> | DALLAS WOODCRAFT CO. L.P. TOLUENE DALLAS, TX |
| 2 <input type="checkbox"/> | BRENNTAG SOUTHWEST INC. DALLAS TOLUENE DALLAS, TX |
| 3 <input type="checkbox"/> | CHEMCENTRAL/DALLAS TOLUENE DALLAS, TX |
| 4 <input type="checkbox"/> | CHEMCENTRAL SOUTHWEST DALLAS TOLUENE DALLAS, TX |
| 5 <input type="checkbox"/> | MOTIVA DALLAS TERMINAL TOLUENE DALLAS, TX |

- Calculate Release** summarizes the total amount released

TRI Calculation Results


| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> Calculate Release! Save Checked Items Sort Details History Download Modify Search New Search Browse Index Help TOXNET Home </div> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="width: 80%;">Environmental Release</th><th style="width: 20%;">Pounds</th></tr> </thead> <tbody> <tr><td>Total Air Release</td><td style="text-align: right;">73,106</td></tr> <tr><td>Total Water Release</td><td style="text-align: right;">499</td></tr> <tr><td>Total Underground Injection Release</td><td style="text-align: right;">0</td></tr> <tr><td>Total Land Release</td><td style="text-align: right;">0</td></tr> <tr><td>Total Environmental Release</td><td style="text-align: right;">73,605</td></tr> <tr style="background-color: #f2f2f2;"> <th>Off-Site Waste Transfer</th><th>Pounds</th></tr> <tr><td>Total Publicly Owned Treatment Works Transfer</td><td style="text-align: right;">0</td></tr> <tr><td>Total Other Off-Site Locations Transfer</td><td style="text-align: right;">3,570,297</td></tr> <tr><td>Total Off-Site Waste Transfer</td><td style="text-align: right;">3,570,297</td></tr> <tr><td>Total Environmental Release and Off-Site Waste Transfer</td><td style="text-align: right;">3,643,902</td></tr> </tbody> </table> | Environmental Release | Pounds | Total Air Release | 73,106 | Total Water Release | 499 | Total Underground Injection Release | 0 | Total Land Release | 0 | Total Environmental Release | 73,605 | Off-Site Waste Transfer | Pounds | Total Publicly Owned Treatment Works Transfer | 0 | Total Other Off-Site Locations Transfer | 3,570,297 | Total Off-Site Waste Transfer | 3,570,297 | Total Environmental Release and Off-Site Waste Transfer | 3,643,902 |
|--|---|-----------------------|--------|-------------------|--------|---------------------|-----|-------------------------------------|---|--------------------|---|------------------------------------|---------------|-------------------------|--------|---|---|---|-----------|--------------------------------------|------------------|--|------------------|
| Environmental Release | Pounds | | | | | | | | | | | | | | | | | | | | | | |
| Total Air Release | 73,106 | | | | | | | | | | | | | | | | | | | | | | |
| Total Water Release | 499 | | | | | | | | | | | | | | | | | | | | | | |
| Total Underground Injection Release | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Total Land Release | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Total Environmental Release | 73,605 | | | | | | | | | | | | | | | | | | | | | | |
| Off-Site Waste Transfer | Pounds | | | | | | | | | | | | | | | | | | | | | | |
| Total Publicly Owned Treatment Works Transfer | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Total Other Off-Site Locations Transfer | 3,570,297 | | | | | | | | | | | | | | | | | | | | | | |
| Total Off-Site Waste Transfer | 3,570,297 | | | | | | | | | | | | | | | | | | | | | | |
| Total Environmental Release and Off-Site Waste Transfer | 3,643,902 | | | | | | | | | | | | | | | | | | | | | | |

ChemIDplus

- From NLM
- Structure and name file used for the identification of chemical substances
- Contains over 368,000 chemical records
- Structural Data for over 177,000 records
- Search options include **Basic** and **Advanced Search**

Basic Search


- Yields a list of results from different sources



About • Contact • Search

National Library of Medicine
Specialized Information Services

SIS



ChemIDplus
Record

[Tox. & Env. Health](#) [TOXNET](#) [ChemIDplus](#)

Arsenic
RN: 7440-38-2

Basic Information
[Full Record](#)
[Names & Synonyms](#)
[Formulas](#)
[Classification Codes](#)
[Registry Numbers](#)
[Notes](#)

For more information about this substance, you may select from the the links below.

File Locator

| | |
|---------------------------|---|
| CANCERLIT | NCI CANCER LITerature |
| CCRIS | NCI Chem Carcinogenesis Res Info System |
| DART/ETIC | Developmental and Reproductive Toxicology |
| DSL | Domestic Substances List of Canada |
| EINECS | EU Inv of Existing Commercial Chem Sub |
| EMIC | Environmental Mutagen Information Center |
| GENETOX | EPA GENetic TOXicology |
| HSDB | Hazardous Substances Data Bank |
| Haz-Map | Occupational exposure to hazardous agents |
| IRIS | EPA Integrated Risk Information System |


Search Navigation
[Main Query Page](#)
[Advanced ChemIDplus Search](#)

- The **Basic Information** buttons on the left of the results allows you to access the ChemID*plus* **Full Record**, or a specific portion of the record, such as **Names & Synonyms**, **Formulas**, **Classification Codes**, **Registry Numbers**, and **Notes**
- The **Search Navigation** button on the right allow you to go back to a basic search (**Main Query Page**) or to the advanced search (**Advanced ChemIDplus Search**)
- The middle of the results pages lists the **Locators** where further information on the chemical is found
- The **File Locators** point to NLM associated databases

File Locator

| | |
|---------------------------------|--|
| CANCERLIT | i NCI CANCER LITerature |
| CCRIS | i NCI Chem Carcinogenesis Res Info System |
| DART/ETIC | i Developmental and Reproductive Toxicology |
| DSL | i Domestic Substances List of Canada |
| EINECS | i EU Inv of Existing Commercial Chem Sub |
| EMIC | i Environmental Mutagen Information Center |
| GENETOX | i EPA GENetic TOXicology |
| HSDB | i Hazardous Substances Data Bank |
| Haz-Map | i Occupational exposure to hazardous agents |
| IRIS | i EPA Integrated Risk Information System |
| MEDLINE | i MEDical literature onLINE |
| MESH | i Medical Subject Headings File |
| MESH HEADING | i Medical Subject Headings |
| RTECS | i Registry of Toxic Effects of Chemical Substances |
| TOXLINE Core | i NLM TOXLINE Core from MEDLINE |
| TOXLINE Special | i NLM TOXLINE Special on TOXNET |
| TRI2000 | i EPA Toxics Release Inventory 2000 |
| TRI2001 | i EPA Toxics Release Inventory 2001 |
| TRI95 | i EPA Toxics Release Inventory 1995 |

- **Internet Locators** link to web resources containing biomedical data
- **Superlist Locators** link to regulatory and scientific lists

| | |
|------------------------------------|---|
| <u>Internet Locator</u> | |
| ATSDR PHSs |  ATSDR Public Health Statements |
| ATSDR TOXFAQS |  ATSDR ToxFAQS |
| ATSDR Tox Profiles |  ATSDR Toxicological Profiles |
| EPA CRS |  EPA Substance Registry System |
| EPA Envirofacts |  EPA Master Chemical Integrator |
| NIOSH ICSC |  NIOSH International Chemical Safety Cards |
| NIOSH Pocket Guide |  NIOSH Pocket Guide to Chemical Hazards |
| NIST WebBook |  NIST Chemistry WebBook |
| NJ-HSFS |  New Jersey Hazardous Substance Fact Sheets |
| <u>Superlist Locator</u> | |
| DOT |  DOT Hazardous Materials |
| IARC |  International Agency for Research on Cancer |
| MA |  Massachusetts Right-to-know Substances |
| MI |  Michigan Critical Materials Register |
| NJ |  New Jersey Right-to-know Substances |
| PA |  Pennsylvania Right-to-know Substances |
| PEL |  OSHA Toxic and Hazardous Substances |
| PELS |  OSHA Toxic and Hazardous Substances, 1989 |
| REL |  NIOSH Recommended Exposure Limits |
| RQ |  CERCLA Reportable Quantities |
| S110 |  ATSDR Priority List of hazardous substances |
| TLV |  ACGIH Threshold Limit Values |
| TRI |  EPA Toxics Release Inventory |
| WHMI |  Workplace Hazardous Materials Information |

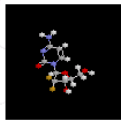
- The **i** button gives you more information about the Locator
- To view the results in any Locator, click on its name

Advanced ChemIDplus Search

- To do structure searches, use **Advanced Search**
- You must download two free plug-ins from MDL (<http://www.mdll.com/index.jsp>) called MDL® Chime and MDL® ISIS/Draw that will allow you to draw and move the chemical structure

Division of Specialized Information Services, NLM
ChemIDplus Chemical Search Input Page
A TOXNET Resource

Try the new "Lite" version at
<http://chem2.sis.nlm.nih.gov/chemidplus>
 • Fast searching by Name or RN
 • Structures display as GIF images
 • No plugin or applet required

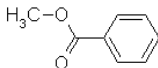


367824 Records
190779 Structures

Powered by Chemscape™
<http://www.mdll.com/products/framework/chemscape/>

3D structures generated by CORINA a product of Molecular Networks

Structure Input Box



Structure Search Type:

Display Results

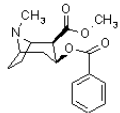
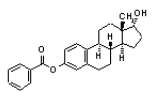
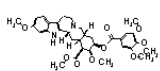
Display chemical structures using
Chime ☒
Java ☐

Data Search Type:


And optional Locator Code limit is

- A structure search yields a list of chemicals which have similar structures

Query Results of 4597

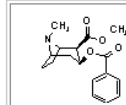
| Options | ID | Structure | CAS | Molecule Name | Formula |
|---|-----------|---|---------|------------------------------|---------------|
| <input type="button" value="Full Record"/> <input type="button" value="Enlarge Structure"/> <input type="button" value="Use Structure For Query"/> <input type="button" value="Use Structure for Similarity"/> | 000050362 |  | 50-36-2 | Cocaine [BAN] | C17-H21-N-O4 |
| <input type="button" value="Full Record"/> <input type="button" value="Enlarge Structure"/> <input type="button" value="Use Structure For Query"/> <input type="button" value="Use Structure for Similarity"/> | 000050500 |  | 50-50-0 | Estradiol benzoate [INN/JAN] | C25-H28-O3 |
| <input type="button" value="Full Record"/> <input type="button" value="Enlarge Structure"/> <input type="button" value="Use Structure For Query"/> <input type="button" value="Use Structure for Similarity"/> | 000050555 |  | 50-55-5 | Reserpine [USAN/BAN/INN/JAN] | C33-H40-N2-O9 |

- A full record page includes all information and links available in the basic search with the addition of the **Molecular Structure** button



ChemIDplus

Cocaine [BAN] RN: 50-36-2



Enlarge Structure

Molecular Structure

Names and Synonyms

Classification Codes

Formulas

Notes

Registry Numbers

Locator Codes

Entire Record

Search Results Page

Main Query Page

File Locator

[AIDSLINE](#)

[CANCERLIT](#)

[ClinicalTrials.gov](#)

[DART/ETIC](#)

[EINECS](#)

[EMIC](#)

[HSDE](#)

[MEDLINE](#)

[MEDLINEplus](#)


Welcome to the ChemIDplus Locator Page

The window to the left displays one or more ChemIDplus Locator Codes which link to other sites that carry information about the chemical you have retrieved. You may click on:

- A hyperlinked Locator Code such as [TOXLINE](#) to retrieve data from that resource. Results will be displayed in this window.
- The information icon (i) to get a description of the source of the Locator Code and the scope of the search.

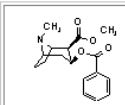
The window on the top of the screen displays buttons that you may click on to change the data displayed for this chemical or to change your search mode. Hold your mouse pointer over a button to see a more detailed description.

- **Molecular Structure** allows you to use the selected structure to run another query



ChemIDplus

Cocaine [BAN] RN: 50-36-2



Enlarge Structure

Molecular Structure

Names and Synonyms

Classification Codes

Formulas

Notes

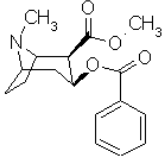
Registry Numbers

Locator Codes

Entire Record

Search Results Page

Main Query Page

| | | |
|---|--|-----------------------|
|  | ID: 000050362 | CAS Number: 50-36-2 |
| | <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="border: 1px solid black; padding: 2px 5px;">Enlarge Structure</div> <div style="border: 1px solid black; padding: 2px 5px;">Use Structure For Query</div> <div style="border: 1px solid black; padding: 2px 5px;">Use Structure for Similarity</div> </div> | Formula: C17-H21-N-O4 |
| | | |